13. a, b, c, d = nr. pare consecutive

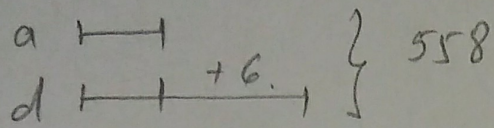
$b = a + 2$

$c = b + 2 = a + 2 + 2 = a + 4$

$d = c + 2 = a + 4 + 2 = a + 6 \Rightarrow \underline{d = a + 6}$

$\underline{a + d = 558}$

$a + b + c + d = ?$



$558 - 6 = 552$ (2 seg. egale)

$552 : 2 = 276$ (1 seg. egal) (a)

$276 + 2 = 278$ (b)

$278 + 2 = 280$ (c)

$280 + 2 = 282$ (d)

$a + b + c + d = 276 + 278 + 280 + 282 = 1116$

14. a, b, c, d = nr. impare consecutive

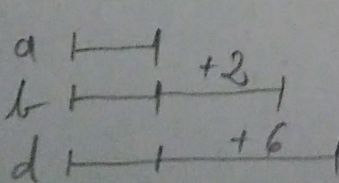
$\underline{b = a + 2}$

$c = b + 2 = a + 2 + 2 = a + 4 \Rightarrow c = a + 4$

$d = c + 2 = b + 2 + 2 = b + 4 = a + 2 + 4 = a + 6 \Rightarrow \underline{d = a + 6}$

$\underline{b + d = 406}$

$a + b + c + d = ?$



$406 - 2 - 6 = 398$ (2 seg. egale)

$398 : 2 = 199$ (1 seg egal) (a)

$b = 199 + 2 = 201$

$d = 199 + 6 = 205$

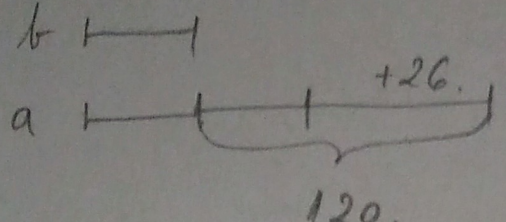
$c = 199 + 4 = 203$

$a + b + c + d = 199 + 201 + 203 + 205 = 808$

15. $a - b = 120 \Rightarrow a = b + 120$

$a = 2 \times b + 26$

$a, b = ?$



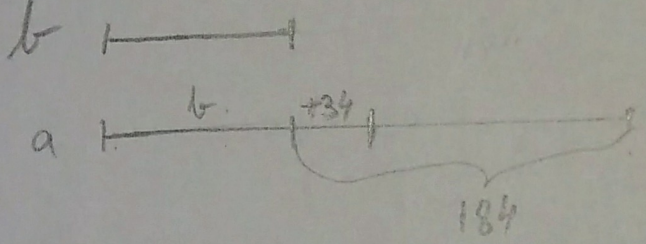
$120 - 26 = 94$ (1 seg. egal) (b)

$94 + 120 = 214$ (a)

16. $a - b = 184 \Rightarrow a = 184 + b$

$b = a:2 - 34 \Rightarrow a:2 = b + 34$

$a + b = ?$



$184 - 34 = 150$ (este $a:2$)

$150 - 34 = 116$ (b)

$184 + 116 = 300$ (a)

$a + b = 300 + 116 = 416$

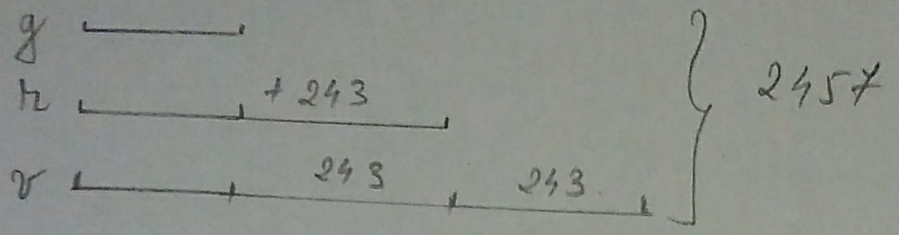
17. $g + r + v = 2457$

$r = g + 243$

$r = v - 243 \Rightarrow v = r + 243$

$g, r, v = ?$

g = beculete galbene
r = beculete roșii
v = beculete verzi



$2457 - 3 \times 243 = 2457 - 729 = 1728$ (3 seg. egale)

$1728 : 3 = 576$ (1 seg. egal) (g)

$576 + 243 = 819$ (r)

$819 + 243 = 1062$ (v)

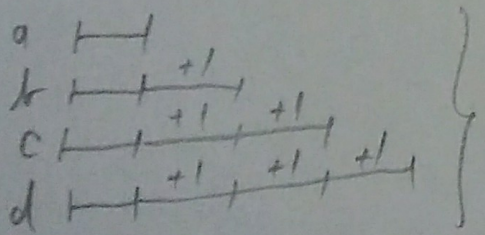
18. a, b, c, d = nr. de pe fila dublă (nr. sunt consecutive)

$b = a + 1$

$c = b + 1 = a + 2$

$d = c + 1 = a + 3$

$a + b + c + d = 274$



$274 - (1 \times 6) = 274 - 6 = 268$ (4 seg egale)

$268 : 4 = 67$ (a) (primul nr. de la fila dublă)

$67 + 1 = 68$ (b) (al II-lea nr.) (este nr. paginii de la mijlocul cărții)

$68 \times 2 = 136$ pagini are cartea

19. 7 zile = 175 pagini

II = 5 + I

III = 5 + II = 10 + I

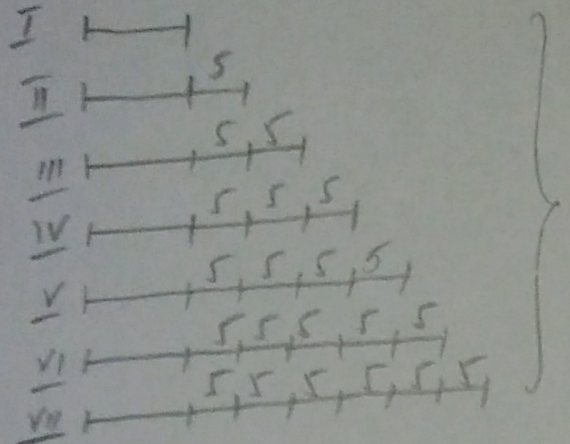
IV = 5 + III = 15 + I

V = 5 + IV = 20 + I

VI = 5 + V = 25 + I

VII = 5 + VI = 30 + I.

I + II + III + IV + V + VI + VII = 175



175 - (5 x 21) = 175 - 105 = 70 (7 zile egale)

70 : 7 = 10 pagini citite în I zi

10 + 5 = 15 pagini a II-a zi

15 + 5 = 20 pagini a III-a zi

20 + 5 = 25 pagini a IV-a zi

25 + 5 = 30 pagini a V-a zi

I + II + III + IV + V = 10 + 15 + 20 + 25 + 30 = 105 pagini a citit în 5 zile

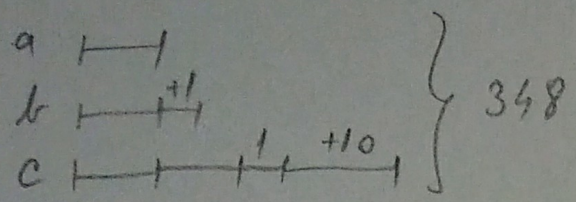
105 + 5 = 110 (a ajuns la pagina 110)

20. $a+b+c=348$ puncte

$c = a+b+10$

a, b = nr. consecutive

$b = a+1$



$348 - 10 - 1 - 1 = 338 - 2 = 336$ (4 părți egale)

$336 : 4 = 84$ puncte (a)

$84 + 1 = 85$ (b)

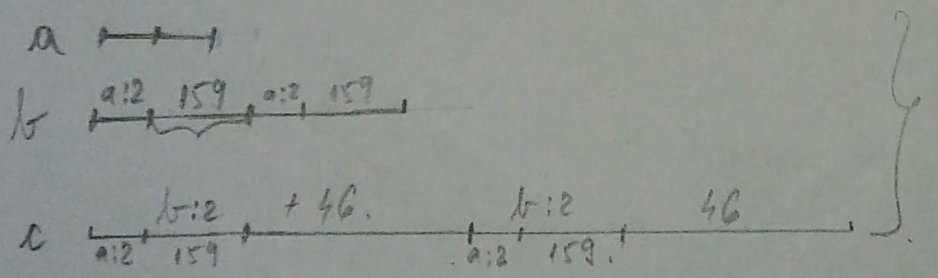
$85 + 84 + 10 = 169 + 10 = 179$ (c)

21. a, b, c

$a+b+c=1556$

$b:2 = a:2 + 159$

$b:2 = c:2 - 46 \Rightarrow c:2 = b:2 + 46$



$1556 - 2 \times 46 - 4 \times 159 = 1556 - 92 - 636 = 828$ (6 jumătăți egale de a)

$828 : 6 = 138$ (este a:2)

$a = 138 \times 2 = 276$

$b = 2 \times (138 + 159) = 2 \times 297 = 594$

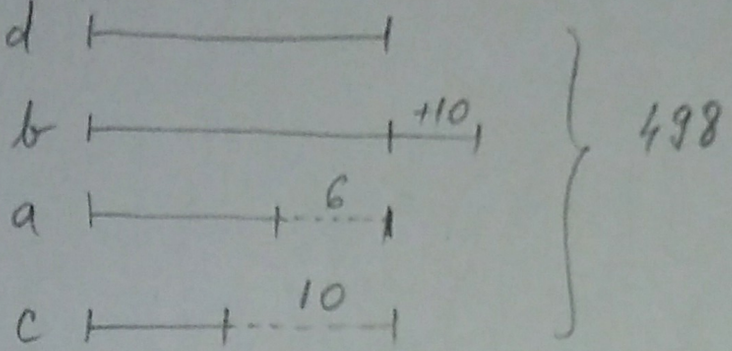
$c = 2 \times (297 + 46) = 2 \times 343 = 686$

22. $a+b+c+d=498$

$a+6=d$

$b-10=d \Rightarrow b=d+10$

$c+10=d$



$498-10=488$ (4 sg egale d)

$488:4=122$ (d)

$122+10=132$ (b)

$122-6=116$ (a)

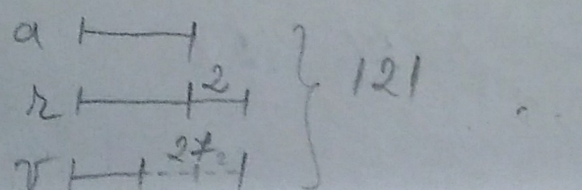
$122-10=112$ (c)

23. $v+r+a=121$

$v=r-27 \Rightarrow r=v+27$

a, r = nr. pare consecutive.

$r=a+2$



$121-2-2=117$ (3 sg. egale)

$117:3=39$ (a)

$39+2=41$ (r)

$v=41-27=13$ (v)